Internat Application No

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		PCT/EP2004/053005	
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B61L5/10		
	International Patent Classification (IPC) or to both national classific	ation and IPC	
	seanched (classification system followed by classification	on symbols)	
IPC 7	B61L		
Documental	ion searched other than minimum documentation to the extent that s	such documents are Incl	uded in the fields searched
	ata base consulted during the International search (name of data ba ternal, WPI Data	se and, Where practica	I, search terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
X	EP 1 245 469 A (GE TRANSP SYSTEMS 2 October 2002 (2002-10-02)	S S P A)	1,2,4-8, 10,12, 15,16
Y A			9,11, 18-20 3,13,14
^	paragraphs '0008!, '0009!, '001 figure 2	13!	3,13,14
X	WO 02/055360 A (VAE EISENBAHNSYST VAE AKTIENGESELLSCHAFT; SCHNEDL, ACHL) 18 July 2002 (2002-07-18)	TEME GMBH; KARL;	17,22
Υ	page 1, line 4 - page 1, line 12 page 5, line 36 - page 7, line 33 figure 1	3	11,18-21
		-/	
X Furt	ner documents are listed in the continuation of box C.	X Patent family	members are listed in annex.
° Special ca	tegories of cited documents :		olished after the international filing date
consid	ent defining the general state of the art which is not lered to be of particular retevance document but published on or after the International	citéd to understar Invention	d not in conflict with the application but not the principle or theory underlying the
filing of "L" docume which	iate int which may throw doubts on priority claim(s) or is clied to establish the publication date of another	cannot be considente involve an inventi	ular relevance; the clatmed invention ered novel or cannot be considered to we step when the document is taken alone ular relevance; the claimed invention
"O" docum: other i		cannot be considered document is common ments, such common	ered to involve an inventive step when the bined with one or more other such docu- bination being obvious to a person skilled
later ti	ent published prior to the international filing date but an the priority date claimed	in the art. *&* document member	r of the same patent family
	actual completion of the international search 9 March 2005	Date of mailing of 05/04/2	the international search report
	nailing address of the ISA	U5/U4/2	.000
	European Patent Öffice, P.B. 5616 Patentizan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax. (+31-70) 340-3016	Massals	sk1, M

Internate Application No
PCT/EP2004/053005

		FC17EF20047053005
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Assevant to claim No.
Y	US 6 454 221 B1 (BONFIGLI GIUSEPPE) 24 September 2002 (2002-09-24) column 5, lines 19-29; figure 3	9,21
Ρ,Χ	WO 2004/014709 A (VAE EISENBAHNSYSTEME GMBH; VAE GMBH; SCHNEDL, KARL) 19 February 2004 (2004–02–19) the whole document	17
A	EP 0 467 865 A (SILIANI ANGIOLO SPA) 22 January 1992 (1992-01-22) abstract	1
Α	US 4 842 225 A (CARMES ET AL) 27 June 1989 (1989-06-27) abstract	1
A	GB 1 535 002 A (INT STANDARD ELECTRIC CORP) 6 December 1978 (1978-12-06) abstract	1
		1

Information on patent family members

Internate Application No
PCT/EP2004/053005

						CIZEPZ	004/053005
	tent document in search report		Publication date		Patent family member(s)		Publication date
EP	1245469	A	02-10-2002	IT	FI20010028	U1	27-09-2002
				ĈÀ	2378806		27-09-2002
				EP	1245469		02-10-2002
				US	2002148932	A1	17-10-2002
WO	02055360	Α	18-07-2002	AT	6087		25-04-2003
				WO	02055360		18-07-2002
				BR	0206360		23-12-2003 18-07-2002
				CA CN	2434391 1484595		24-03-2004
				CZ	20031763		12-11-2003
				EP	1349765		08-10-2003
				HU	0401158		28-10-2004
				JP	2004516993		10-06-2004
				US	2004065193	A1 	08-04-2004
US	6454221	B1	24-09-2002	IT	SV970044		22-04-1999
				ΑT	221483		15-08-2002
				AU	756674		23-01-2003
				AU Br	1030599		10-05-1999 26-09-2000
				CA	9813871 2307645	A A1	29-04-1999
				DE	69806955		05-09-2002
				DE	69806955		13-03-2003
				DK	1024987		02-09-2002
				EP	1024987		09-08-2000
				HU	0100484		28-06-2001
				PL	340656		12-02-2001
				AT AU	236820 1434699		15-04-2003 10-05-1999
				BR	9813869		26-09-2000
				CA	2307644		29-04-1999
				CN	1276761		13-12-2000
				CN	1276762		13-12-2000
				DE	69813275		15-05-2003
				DE	69813275		22-01-2004
				DK	1024988 9920512		14-07-2003
				MO MO	9920512		29-04-1999 29-04-1999
				EP	1024988		09-08-2000
				ES	2177076		01-12-2002
				ES	2195422	T3	01-12-2003
				JP.	2001520146		30-10-2001
				PT	1024987		31-12-2002
				PT US	1024988 6511024		29-08-2003 28-01-2003
	2004014709	 А	19-02-2004	AT	411350		29-12-2003
WU	2004014/09	A	19-02-2004	WO	2004014709		29-12-2003 19-02-2004
				AT	12282002		15-05-2003
				ΑÜ	2003237561		25-02-2004
EP	0467865	Α	22-01-1992	IT	1241757		01-02-1994
				ΙT	1246656	В	24-11-1994
				AT	112528		- 15-10-1994
				DE	69104431		10-11-1994
				DE DK	69104431 467865		20-04-1995 31-10-1994

information on patent family members

Internal Application No
PCT/EP2004/053005

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0467865	Α		EP	0467865 A1	22-01-1992
			ES	2062745 T3	16-12-1994
US 4842225	Α	27-06-1989	FR	2614908 A1	10-11-1988
			ΑT	80586 T	15-10-1992
			CA	1319744 C	29-06-1993
			CN	88102584 A ,B	16-11-1988
			DE	3874596 D1	22-10-1992
			DE	3874596 T2	18-02-1993
			ĒΡ	0289978 A1	09-11-1988
			ES	2035144 T3	16-04-1993
			GR	3006439 T3	21-06-1993
			JP	2022406 C	26-02-1996
			JP	7041838 B	10-05-1995
			JP	63304801 A	13-12-1988
			KR	9707956 B1	19-05-1997
,					
GB 1535002	Α	06-12-1978	DE	2606664 A1	25-08-1977
			HU	180251 B	28-02-1983